Zhi Li

CONTACT INFORMATION	School of Computer Science and Technology Hangzhou Dianzi University Hangzhou 310018 China	*Phone:* (+86) 187-6713-5921 *E-mail:* zhili.pro@gmail.com *Homepage:* http://zhili42.com

RESEARCH INTERESTS

Mobile and Sensor Networks, Mobile Crowdsourcing, Machine Learning, Game Theory

SKILLS

Basic: Algorithm design and analysis, System implementation
Programming: Java, Android, Python, NesC, TinyOS
Language: Chinese (Native), English (TOEFL: R27 + L27 + S19 + W23 = 96)

HONORS AND AWARDS

Outstanding Graduate Student in Zhejiang Province	2017
Outstanding Graduate Student in Hangzhou Dianzi University	2017
National Scholarship for Graduate Student (11/304)	2016
Nokia Scholarship for Graduate Student (2/147)	2015
National Scholarship for Graduate Student (10/283)	2015
The First Prize Academic Scholarship, Hangzhou Dianzi University (10%)	2015 - 2016

PUBLICATIONS

Conference Papers

1. Jianhui Zhang, Pengqian Lu, **Zhi Li**, Jiayu Gan. "*". Submitted to *IEEE **INFO-COM'18***, under review.

2. **Zhi Li**, Jianhui Zhang, Jiayu Gan, Pengqian Lu, Fei Lin. "Large-Scale Trip Planning for Bike-Sharing System". In *IEEE **MASS***, Short paper, Orlando, FL, USA. Oct 22 - 25, 2017.

3. Jianhui Zhang, **Zhi Li**, Xiaojun Lin, Feilong Jiang. "Composite Task Selection with Heterogeneous Crowdsourcing". In *IEEE **SECON***, San Diego, CA, USA. Jun 12 - 14, 2017.

4. Jianhui Zhang, Mengmeng Wang, **Zhi Li**. "Stochastic Duty Cycling for Heterogenous Energy Harvesting Networks". In *IEEE **IPCCC***, Nanjing, China. Dec 14 - 16, 2015.

Journal Articles

1. Jianhui Zhang, Mengmeng Wang, **Zhi Li**. "Charge-aware Duty Cycling Methods for Wireless Systems under Energy-Harvesting Heterogeneity". Submitted to *IEEE **TMC***, under review.

2. **Zhi Li**, Jianhui Zhang, Xingfa Shen, Jin Fan. "Prediction Based Indoor Fire Escaping Routing with Wireless Sensor Network". *Peer-to-Peer Networking and Applications*, 10(3): 697 - 707. [Impact Factor: 1.0]

3. Jianhui Zhang, **Zhi Li**, Shaojie Tang. "Value of Information Aware Opportunistic Duty Cycling in Solar Harvesting Sensor Networks". *IEEE **TII***, 12(1): 348 - 360, 2016. [Impact Factor: 4.708]

4. Jianhui Zhang, **Zhi Li**, Feng Xia, Shaojie Tang, Xingfa Shen, Bei Zhao. "Cooperative Scheduling for Adaptive Duty Cycling in Asynchronous Sensor Networks". *The Computer Journal*, 58(6): 1267 - 1279, 2014. [Impact Factor: 0.787]

PRESENTATION

Stochastic Duty Cycling for Heterogenous Energy Harvesting Networks

- Paper presented at the 34th IEEE International Performance Computing and Com-

munications Conference (IPCCC), Nanjing, China. Dec 15 2015.

RESEARCH PROJECTS	**Crowdsourcing Based Bike-Sharing System**, 2016 - present

- Designed two algorithms to solve the static trip planning problem, the paper is accepted by IEEE MASS'17.
- Built a crowdsourcing platform to collect real-time bike resources information and to provide bike utilization guidance for users.
- Built an application to crawl real-time open bike-sharing information of Hangzhou Public Bicycle.

Internet of Things Based Fire Escaping System, 2014 - present

- Constructed a fire spread model based on fire data generated by Fire Dynamics Simulator and proposed a fire escaping route planning algorithm based on fire spread prediction. The paper is published in Peer-to-Peer Networking and Applications.
- Designed a smartphone based crowd density detection approach and two crowd density detection algorithms based on Quorum System.
- Built a fire escaping experiment platform with TelosB nodes.
- Built a network with TelosB nodes, Android smartphones and Arduino suite.

GRANTS

1. **Excellent Master Dissertation Fostering Foundation**, Hangzhou Dianzi University, PI: Zhi Li, May 2016 - Mar 2017
   Project title: "Internet of Things Based Fire Escaping System".

2. **Graduate Scientific Research Foundation**, Hangzhou Dianzi University, PI: Zhi Li, May 2015 - May 2016
   Project title: "Wireless Sensor Networks Based Fire Escaping System and Algorithm Design".

3. **National Natural Science Foundation of China**, Participator, Jan 2015 - Dec 2018
   Project title: "Research on Environment Information Collaborative Sensing and Processing in Internet of Things".

4. **Zhejiang Provincial Natural Science Foundation of China**, Participator, Jan 2014 - Nov 2016
   Project title: "Research on Optimizing Task Scheduling Strategy in Random Energy Harvesting Internet of Things".

PROFESSIONAL ACTIVITIES	Reviewer for IEEE Transactions on Industrial Informatics	2017
	Reviewer for The Computer Journal	2015

EDUCATION **Hangzhou Dianzi University**, Hangzhou, China

- M.S., Computer Science and Technology, Mar 2017
- Thesis title: "IoT Based Fire Escaping Algorithm and System Design"
- Advisor: Prof. Jianhui Zhang

Hangzhou Dianzi University, Hangzhou, China

- B.E., Computer Science and Technology, Jun 2014

SERVICES	Teaching assistance for *JAVA Programming*	Sep 2015 - May 2016
	Class monitor	2014 - 2017

PERSONAL HOBBIES	Basketball, Badminton, Cycling, Chinese bamboo flute, Guitar.